



MICROCLIMATE INVESTIGATION:

WHERE WOULD BE THE MOST PRODUCTIVE SITES FOR RENEWABLE ENERGY IN THE SCHOOL GROUNDS?

☼ Where is the sun the strongest..?

WHAT TO DO:

1. Collect your cup of water and place it in the *warmest spot you can find*.
2. Measure and record the temperature of the water
3. After half an hour (or longer) return to the cup and measure the temperature again.

Temperature before (°C)	
Temperature after (°C)	

Has the temperature changed? If so, by how much?

Why do you think the temperature has / has not changed?

Can you think of another place that might be even warmer?

☼ How does the microclimate of the school grounds differ from place..?

Using the map, locate the three microclimate sites and using the table below record the different weather variables at each.

	Time of recording	Wind speed (km/hr)	Wind direction (N,S,E,W)	Temp. (°C)	Precip. (mm)	Site description (aspect, shelter, slope, ground surface)
Site one						
Site two						
Site three						

⚙ Which site would be best for (a) a wind turbine and (b) solar panels? Why?

(a) Wind turbine: _____

(b) Solar panels: _____
